

Mains Operated Continuous Reading Tank Contents Gauge

Operation

The model 39 gauge uses the hydrostatic principle of proven reliability and simplicity, with an electric pump using main power. This method requires minimum installation time and gives important advantages in the safe measurement of volatile liquids. The electric pump charges the system with air under pressure. The liquid is displaced from the balance chamber at the bottom of the tank, while excess air escapes via the tanks vent. The resulting pressure in the balance chamber is indicated and is proportionate to the head of liquid in the tank. The gauge unit can be mounted at any position, and may be disconnected at any time without upsetting the calibration. Maintenance is not normally required, as there are no moving parts external to the gauge unit.

Calibration

Each gauge unit is individually calibrated and scaled, to customer requirements for Rectangular, Cylindrical (Horizontal or Vertical) tanks in litre, gallon, kg, tonne etc..

Installation

The model 39 contents gauge can be mounted in any convenient position up to 200m from the tank without affecting the reading. Installation is simple. Remove front cover and mount the gauge with 4 fixing screws supplied, remove lower face plate, and connect a non-switched fused supply 230VAC, re-fit plate and cover. Insert the balance chamber through a 1" or 1 ½" BSP tank boss on top of the tank allowing it to rest on the bottom, and then tighten bush and capillary clamp. Connect the tube to the gauge unit. There is no need to empty the tank. Switch on power supply, system becomes operative.

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BC2 – Standard Balance Chamber

Construction: Brass with compression fitting for 6mm tubing

Also Available in: PVC (1) or Stainless Steel (7)

Viscosity Limit: 50 sec, redwood no.1 @ 16°

Requires a 1" bsp Tank Adaptor

BC2 Standard Brass balance chamber

BC2-1 PVC balance chamber



BC1 – as BC2 but with Magnet

Construction: As BC2 but with attached magnet to stabilize the balance chamber in position when tank is being filled.

Requires a 1 ½" bsp Tank Adaptor

Magnet for Standard balance chamber

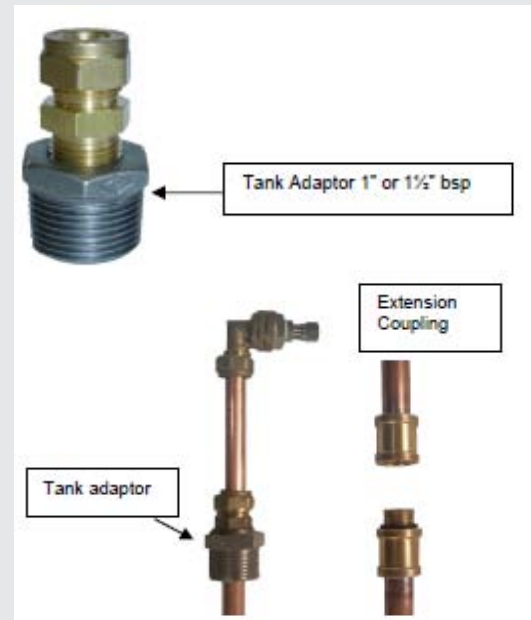


BC3 – Rigid Balance Chambers

Construction: PVC (1), Copper (6) or Stainless Steel (7).

Requires a 1" bsp Tank Adaptor

Made to customer requirements



For use with - Models 28PU, 28PUE, 36, 37, 38, 39, 40 & 45